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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,203	07/28/2003	Jurgis Astrauskas	1007-0565	6105
Maginot, Moor	7590 01/25/2007 re & Beck, LLP	EXAMINER		
Chase Tower, Suite 3250			TRAN, DZUNG D	
111 Monument Indianapolis, I			ART UNIT	PAPER NUMBER
			2613	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

SP

	Application No.	Applicant(s)				
	10/628,203	ASTRAUSKAS, JURGIS				
Office Action Summary	Examiner	Art Unit				
	Dzung D. Tran	2613				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>30 Oc</u>	Responsive to communication(s) filed on <u>30 October 2006</u> .					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowar	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the original transfer of the correction is objected to by the Example 11).	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on Noed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Merkler et al. U.S. Patent no. 5,442,344 in view of Connors US patent no. 6,338,680.

Regarding claims 1 and 8, Merkler discloses in Figure 4, a method/apparatus for optical communication with a device external to the probe, the probe comprising:

an optical receiver 42 for receiving a light signal from an external device and generating a corresponding data signal (col. 3, line 54) and a micro processor 34 connected to probe optical receiver 42.

Merkle does not specifically disclose the connector that connect the a micro processor 34 and probe optical receiver 42 is the RS-232 converter for converting a first voltage signal from a diagnostic tool (i.e., a micro processor 34) coupled to the optical receiver to a second voltage signal. Connors discloses in Figure 2, a RS-232 converter 28 for converting a first voltage signal from a diagnostic tool (i.e., a micro-processor 20) coupled to the optical receiver (i.e., receiver of computer 14) to a second voltage signal (Col. 5, line 66 to Col. 6, line 9). At the time of the invention was made,

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it would have been obvious to an ordinary skill in the art to include the RS-232 taught by Connors in the apparatus of Merkle. One of ordinary skill in the art would have been motivated to do that in order to provide the suitable voltage for the probe apparatus.

Regarding claims 2 and 9, Connors discloses wherein the first voltage signal is received from a power supply of the micro-processor 20 and the voltage converter is an RS-232 voltage converter (col. 6, lines 2-9).

Regarding claims 3 and 10, Connors discloses the first voltage signal is comprised of a +5V reference and a ground reference and the voltage converter generates a -12V reference from the first voltage signal (Col. 5, line 66 to Col. 6, line 9).

Regarding claims 4 and 11, Examiner take an official notice that optical receiver is a phototransistor is well known in the art (e.g., see Meyer US Patent no. 5,933,812).

Regarding claims 5-7 and 12-14, Connors discloses the second voltage signal is a negative potential reference signal (Col. 5, line 66 to Col. 6, line 9).

Regarding claims 15 and 20, the combination of Merkle and Connors discloses a diagnostic system that communicates with an appliance through a low intensity optical interface comprising:

a diagnostic tool (e.g., micro-processor 20) including a communication interface; and

a communication probe including a voltage converter 28 (RS-232 voltage converter; col. 6, lines 2-9) coupled to the communication interface of the diagnostic

tool through an electrical cable, the voltage converter for converting a first voltage signal to a second voltage signal, the communication probe also including an optical receiver 42 of Figure 4 of Merkle coupled to the voltage converter so that the second voltage signal operates the optical receiver in a high speed mode.

Regarding claims 16 and 17, Connors discloses in Figure 1, the diagnostic tool is a handheld computer 14 and a personal digital assistant.

Regarding claim 18, Connors discloses wherein the communication interface is coupled to the power supply of the diagnostic tool (see Figure 4 of Connors).

Regarding claim 19, Connors discloses the second voltage signal is a negative potential reference signal (Col. 5, line 66 to Col. 6, line 9).

Response to Argument

3. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung D Tran whose telephone number is (571) 272-3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan, can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Dzung Tran 01/16/2007

DZUNG TRAN PRIMARY PATENT EXAMINE